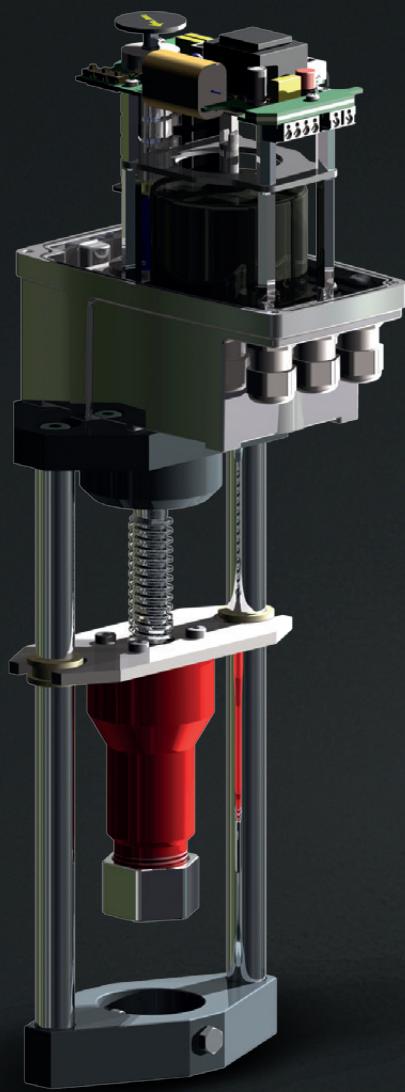


VENTARIS N+

The combination of
Nano+ and Ventaris



Nano+ actuator head

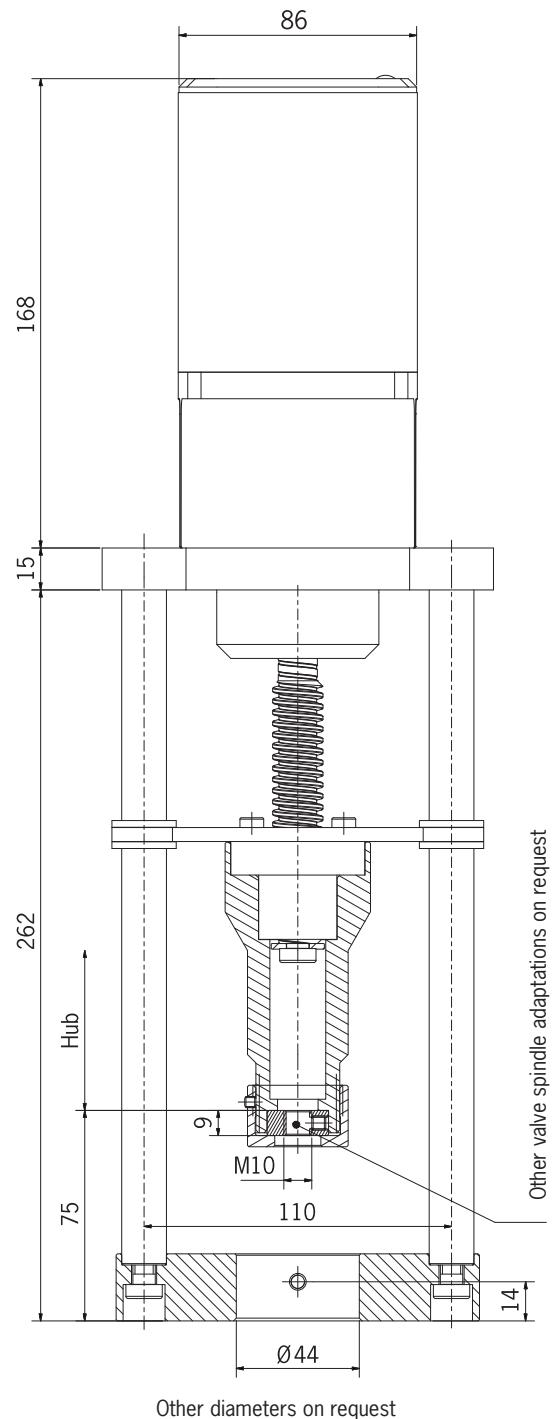
- Synchronous motor (24 VAC, 115 VAC, 230 VAC), alternatively 24 VDC motor
- Metal body/cover
- Robust industrial design
- Expandable functions through numerous options
- Failsafe option – moves to a safe position in case of a power outage
- Adjustment via fixable aluminium control cams

TECHNICAL DATA

Ventaris N+

TECHNICAL DATA NANO +

Protection type	IP 65
Ambient temperature	-15 °C...+60 °C (optionally -40 °C...+80 °C)
Case	Powder-coated die-cast aluminium
Gear unit	Metal
Cover	Aluminium
Hand wheel	Outer (optional)
Position indicator	Mechanical
Supply voltage	230 VAC; optionally 115 VAC, 24 VAC, 24 VDC
Additional switches	2 or 4, optional
Potentiometer	Optional
Duty cycle	100%
Connection	3 cable entries M16x1.5
Path shut-off	Aluminium control cam, micro-switch
Maintenance	Maintenance-free
Actuation	3-point step (optional positioner)



Other diameters on request

TYPE VENTARIS N

Actuating force (N)	1000	1000	1000	1000	1000	2000	2000	2000	2000	2000	3000	3000
Actuating time (mm/s)	0.1	0.3	0.5	0.8	1.3	0.1	0.3	0.5	0.8	1.3	0.1	0.3
Actuating force (N)	3000	3000	3000	4000	4000	4000	4000	4000	5000	5000	5000	6000
Actuating time (mm/s)	0.5	0.8	1.3	0.1	0.3	0.5	0.8	1.3	0.1	0.3	0.5	0.7

Other actuating times on request

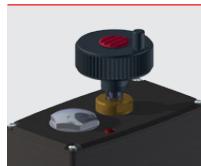
VENTARIS N+

Options



Cam profiles

- > $330^\circ/180^\circ$
- > With set screw for securing position

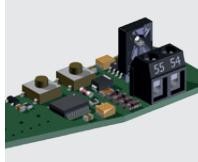


Hand wheel

- > Automatic disconnect
- > Not co-rotating

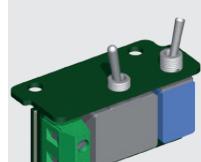
Mechanical position indicator

- > Freely adjustable



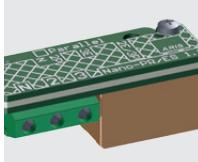
Power output (additional PCB)

- > Position feedback 4–20 mA



Service switch (standard with DC)

- > Manual/automatic operation (switch)
- > Left hand/right hand rotation (button)
- > Integrated in actuator



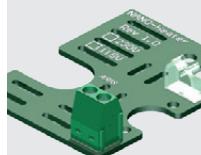
Parallel relay/ single-wire control (AC)

- > Alternating current relay
- > Completely wired
- > Operating voltage = motor voltage
- > Parallel connection of multiple actuators



Two or four additional auxiliary path switches

- > Adjustment via control cams that can be adjusted without tools
- > Different control cam forms enable different functions of the auxiliary path switches
- > High switching reliability due to spacer between the PCB and the control cam shaft



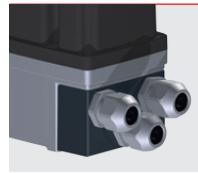
Heating

- > For heating the interior of the actuator to prevent condensation of water



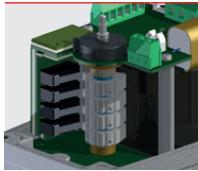
Fail-safe

- > Energy storage
- > Moves to pre-defined position in case of power outage
- > Charge time <3 minutes
- > Integrated in the actuator
- > Moves at control speed or high speed
- > 24 VDC



Cable entry adapter

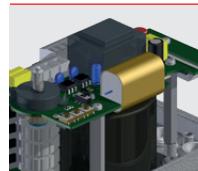
- > For cable gland 3xM20 (instead of 3xM16)
- > Cable entry from front
- > Anodised aluminium



Potentiometer

Standard

- > 1 kΩ/10 kΩ
- > Position feedback



PMR Nano (AC)

- > Power supply:
230 V ±10%, 50/60 Hz
Special voltages/frequencies on request
- > Reference input:
0 (4) to 20 mA (DC), optionally 0 (2) to 10 V
Load 250 Ω, overload protection 25 mA
Reverse voltage protection up to –25 mA
Resolution 10 bit
- > Actual output:
Fixed limits: 0 or 4–20 mA
(Optionally 0 or 2–10 V)
Current sink, max. load 500 Ω
Resolution 10 bit